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<h1>TRANSMITTAL FORM</h1> <p>(to be used for all correspondence after initial filing)</p>		Application Number	10/680,549-Conf. #5005
		Filing Date	October 7, 2003
		First Named Inventor	Kamal Jain
		Art Unit	2686
		Examiner Name	Olumide T. Ajibade-Akonai
Total Number of Pages in This Submission	3	Attorney Docket Number	M1103.70141US00

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
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<input checked="" type="checkbox"/> Response to a Requirement for Restriction	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature	<i>William R. McClellan</i>		
Printed name	William R. McClellan		
Date	January 3, 2006	Reg. No.	29,409

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I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
Dated: January 3, 2006	Signature: <i>Doris A. Champagne</i> (Doris A. Champagne)



Docket No.: M1103.70141US00
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kamal Jain et al.
Serial No.: 10/680,549
Confirmation No.: 5005
Filed: October 7, 2003
For: MODEL AND METHOD FOR COMPUTING PERFORMANCE
BOUNDS IN MULTI-HOP WIRELESS NETWORKS
Examiner: Olumide T. Ajibade-Akonai
Art Unit: 2686

Certificate of Mailing Under 37 CFR 1.8(a)

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Dated: January 3, 2006

Doris A. Champagne
Doris A. Champagne

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

RESPONSE TO REQUIREMENT FOR RESTRICTION

This responds to the Requirement for Restriction mailed December 8, 2005.

The Examiner has required restriction to one of the following inventions under 35 U.S.C.

§ 121.

- I. Claims 1-18, directed to a method and computer-readable medium for modeling wireless interference among wireless links between a plurality of wireless nodes in a wireless network, classified in class 455, subclass 423.
- II. Claims 19-21, directed to a computer-readable medium storing a conflict graph data structure, classified in class 455, subclass 446.

III. Claims 22-81, directed to a method and computer-readable medium for computing an upper and lower bound on throughput that a wireless network can support using a protocol interference or physical interference model comprising solving a linear program, classified in class 370, subclass 233.

IV. Claims 82-84, directed to a method and computer-readable medium for improving throughput in a wireless network, comprising using edge and weight information to determine routing paths, classified in class 370, subclass 445.

V. Claims 85-89, directed to a method and computer-readable medium for computing a throughput that a wireless network can support comprising solving a mixed-integer program, classified in class 370, subclass 234.

In response, Applicant hereby elects Group I, claims 1-18, for prosecution in the present application. Applicant expressly reserves the right to file the non-elected claims in one or more divisional applications.

The application is now ready for examination on the merits. If there are questions regarding this response, please contact Applicants' undersigned Attorney.

Dated: January 3, 2006

Respectfully submitted,

By William R. McClellan

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Registration No.: 29,409

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